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# COMMERCIAL FERTILIZERS

## Report for 1969

J. GORDON HANNA



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REPORT ON INSPECTION AND ANALYSIS OF  
COMMERCIAL FERTILIZERS

1969

J. Gordon Hanna, Chief Chemist

Listed in this report for 1969 are the manufacturer's names, the number of samples of the products of each manufacturer collected, the number of these samples found deficient and the ratios of the percentages of nitrogen, phosphoric acid, and potash found to the percentages guaranteed. Results of 354 samples of fertilizer produced by 102 manufacturers are summarized. A table of the tonnage sold during the period between July 1, 1968 and June 30, 1969 is included.

Analyses were made by Messrs. R. A. Botsford, S. P. Squires, W. Glowa, R. E. West, Miss H. Kocaba and Mrs. J. A. Pierson. Inspection and sampling were by Mr. R. R. Nichols.

## COMPLIANCE OF 1969 FERTILIZER SAMPLES WITH GUARANTEES

4

Connecticut Experiment Station

Bulletin 715

Manufacturer	No. of Samples	N	$P_2O_5+K_2O$ total	N	$P_2O_5+K_2O$	N	Average % of claims
Acme Quality Paints, Inc.	2	2	4	6	0	0	102.5 105.7
J. & L. Adikes, Inc.	1	1	2	3	0	0	116.0 120.6
Agrico Chemical Co.	16	16	28	44	2	1	105.9 106.9
Agricultural Products Co., Inc.	3	3	6	9	0	0	110.5 110.3
Agricultural Supply Co.	2	2	4	6	0	0	108.3 114.3
Agway, Inc.	11	8	11	19	0	0	104.4 103.8
Allied Chemical Corp.	1	1	0	1	0	-	101.8 ---
American Cyanamid Co.	3	3	0	3	0	-	103.7 ---
American Fertilizer Co.	1	1	2	3	0	0	96.8 112.3
American Hardware Supply Co.	1	1	2	3	0	0	98.4 106.0
Armour Agriculture Chemical Co.	4	4	8	12	3	0	95.2 117.5
Asgrow Seed Co.	1	1	2	3	1	0	96.7 100.4
Atlantic Processing Co.	4	4	0	4	0	-	111.5 ---
Atlas Fish Fertilizer Co.	1	1	2	3	0	0	105.6 137.5
The Baker Castor Oil Co.	4	0	0	0	-	-	---
The Bartlett Tree Expert Co.	1	1	2	3	0	1	109.3 93.4
Black Magic, Inc.	1	1	2	3	0	0	96.0 120.8
Brockville Chemical Industries, Ltd.	2	2	0	0	0	-	101.8 ---
Brookside Nurseries, Inc.	4	4	6	10	0	0	111.8 122.1
Cadwell & Jones, Inc.	9	6	10	16	0	1	106.9 110.4
Cambridge Labs, Inc.	1	1	0	1	0	-	102.2 ---
Peter Cascio Nursery, Inc.	4	4	8	12	0	0	104.0 108.6
Central Soya & Subsidiaries	2	2	0	2	0	-	100.4 ---
Chamberlain & Barclay, Inc.	1	1	2	3	0	-	104.0 106.0

## Commercial Fertilizers

Chevron Chemical Co.	10	16	0	106.0
Chilean Nitrate Sales Corp.	2	2	0	101.5
Clinton Nursery Products, Inc.	1	1	2	110.6
Cooke & Co.	3	3	0	115.2
Corenco Corporation	18	16	27	104.0
Decatur Cotton Oil Co.	2	2	0	106.3
E. I. duPont de Nemours & Co.	2	2	0	111.7
Eastman Gelatine Corporation	3	0	3	105.2
Elanco Products Co.	3	3	6	102.5
The Espoma Co.	8	8	16	102.8
Leon Ezzell Co.	2	2	4	---
Faesy & Besthoff, Inc.	5	5	7	---
Farmingdale Garden Labs, Inc.	2	2	4	109.7
Federal Chemical Co.	2	2	4	112.3
The Fer-Mel Corporation	8	8	16	104.0
Garfield Williamson, Inc.	2	2	4	105.0
Glorion Corporation	4	4	8	105.7
Godfrey's Garden Shop	1	1	2	107.6
Gold Kist S. A.	2	0	0	107.0
W. R. Grace & Co.	1	1	0	107.2
Grand Union Co.	1	1	2	99.7
The Great Atlantic & Pacific Tea Co.	2	2	4	96.4
Green Beauty Products	1	1	2	96.4
Green Ribbon Products Co.	1	1	2	106.3
Gro-Fast Fertilizer Associates	2	2	4	103.3
Halstead Distributing Co.	2	2	4	100.7
The Chas. C. Hart Seed Co.	5	5	15	101.7
Hercules, Inc.	2	2	0	122.6

Manufacturer	No. of Samples	No. of guarantees		Samples deficient		Average % of claims	
		N	P <sub>2</sub> O <sub>5</sub> +K <sub>2</sub> O total	N	P <sub>2</sub> O <sub>5</sub> +K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub> +K <sub>2</sub> O
A. H. Hoffman, Inc. The Hy-Trous Corporation	4 2	4 2	8 4	12 6	0 0	0 0	104.9 134.3
International Minerals & Chemical Corporation	4	2	6	8	0	0	106.1
Kerr-McGee Chemical Corp. E. J. Korvette, Inc.	34 3	32 3	59 6	91 9	4 0	5 0	107.4 109.1
Lebanon Chemical Corp. The Liberty Fertilizer Group Loft's Pedigreed Seed, Inc.	4 1 2	4 1 2	7 2 4	11 3 6	0 0 1	0 0 0	125.6 100.0 97.0
Mandeville & King Co. McArdle's Seed Co. Miller Chemical & Fertilizer Corp. Mississippi Cottonseed Products Co.	2 1 5 1	2 1 5 1	4 2 10 0	6 3 15 0	0 0 0 0	2 0 0 -	104.0 106.4 115.0 114.6
Nassau Garden, Inc. Natural Plant Food Co., Inc.	8 2	8 2	16 4	24 6	1 1	1 0	112.0 88.5
Old Deerfield Fertilizer Co. Old Fox Agricultural Sales, Inc. Organic Compost Corp. of Penn.	1 9 1	1 8 1	2 18 2	3 26 3	0 1 0	0 5 0	100.0 101.2 240.0
Palmetto Oil Co. Patco Products, Inc. Pennsylvania Dutch Fertilizer Co. Robert B. Peters Co., Inc. Planter's Oil Mill Frank S. Platt Co.	4 1 4 1 2 1	4 1 4 1 2 1	0 2 8 1 0 2	4 3 12 1 2 3	0 0 1 0 0 2	- 0 0 1 1 0	103.1 103.3 103.2 103.2 106.7 100.0

Commercial Fertilizers

7

Frank Pollicastro & Sons, Inc.	1	1	2	2	4	6	6	0	0	104.0
Ra-Pid-Gro Corporation Ross Daniels, Inc.	2	1	2	2	2	3	0	0	104.7	102.5
O. M. Scott & Sons Co. S & D Products, Inc.	3	3	6	6	4	9	0	0	100.8	107.0
Sears, Roebuck & Co.	2	17	17	28	45	6	0	1	115.8	115.7
Sewerage Commission, City of Milwaukee	2	2	2	2	0	4	0	0	106.7	116.4
Sherwin-Williams Co.	2	1	1	2	0	2	0	-	106.7	174.5
Sierra Chemical Co.	1	12	12	20	20	3	0	0	108.5	---
Smith Douglass Division	1	1	1	0	1	0	0	1	102.2	100.5
The Southern Cotton Oil Co.	1	7	7	0	7	0	0	-	109.4	108.8
Southern of Rocky Mount, Inc.	5	5	5	0	5	0	0	-	105.5	---
Southern Soya Corp. of Leesville	4	4	4	4	8	8	0	-	101.8	---
Southwest Potash Corporation	5	5	5	5	10	0	0	-	101.3	---
Spencer Kellogg Division	1	1	0	1	0	1	0	-	104.5	101.0
A. E. Staley Manufacturing Co.	1	1	1	2	3	0	0	-	104.2	102.6
Stern's Garden Products, Inc.	4	4	6	6	10	0	0	-	106.3	---
Swift Agricultural Chemical Corp.	1	1	2	3	0	0	0	-	103.4	105.0
Swiss Farms, Inc.	1	1	2	3	0	0	0	-	147.9	110.9
Thomaston Ranch Division Two Guys	1	1	2	3	1	9	0	1	113.3	109.3
Universal Chemical Co., Inc.	2	3	6	4	6	6	0	0	70.0	68.0
Vaughan's Seed Co. Vornado, Inc.	1	1	1	2	2	3	0	0	105.4	116.0
Walker-Gordon Laboratory Co.	1	1	1	2	2	3	0	0	102.8	102.3
Western Auto Supply Co.	1	2	2	2	3	3	0	0	100.0	128.0
S. D. Woodruff & Sons	2	2	2	4	6	6	1	0	98.0	109.3
								0	94.7	117.3

TONNAGES OF FERTILIZER MATERIALS AND MIXED  
FERTILIZERS PURCHASED DURING THE PERIOD  
OF JULY 1, 1968 - JUNE 30, 1969

	<u>Tonnage</u>
I. Containing chiefly nitrogen:	
Castor pomace	91
Cottonseed meal	856
Cyanamid	59
Dried blood	2
Nitrate of ammonia	746
Nitrate of soda	309
Nitrogen solutions	172
Sulfate of ammonia	23
Urea	2, 207
Urea-formaldehyde	16
Other materials	55
	4, 536
II. Containing chiefly phosphoric acid:	
Dicalcium phosphate	112
Phosphate rock	12
Precipitated bone	10
Superphosphate, 20%	1, 538
Superphosphate, 46%	635
	2, 307
III. Containing chiefly potash:	
Cotton hull ashes	53
Muriate of potash	2, 226
Sulfate of potash	5
Sulfate of potash-magnesia	12
	2, 296
IV. Containing nitrogen and phosphoric acid:	
Ammonium phosphonitrate	27
Bone meal	136
Diammonium phosphate	27
Fish	128
	318
V. Containing nitrogen and potash:	
Nitrate of potash	7
Nitrate of soda-potash	4
	11
VI. Mixed fertilizers:	
Commercial mixtures	43, 602
Special and home mixtures	3, 861
Special tobacco mixtures	116
	47, 579

	<u>Tonnage</u>
VII. Miscellaneous:	
Borax	11
Iron sulfate	5
Magnesium sulfate	6
Sewage sludge	1,219
Sheep, cattle and poultry manure	1,985
Other	167
	3,393
Total	60,440

## MIXED FERTILIZER DISTRIBUTION

<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>
0- 8-30	14	8-16-16	316	20- 0-20	13
0-10-30	215	10- 5- 5	426	20- 4- 9	37
0-15-30	554	10- 6- 4	4234	20- 5-10	67
0-20-20	158	10- 8- 2	15	20- 5-30	16
0-25-25	59	10- 8- 3	11	20-10- 5	484
4- 3- 2	96	10- 8- 4	19	20-10-10	98
4- 6- 4	77	10- 8- 8	74	20-10-15	655
4- 6- 6	24	10-10-10	7633	20-12- 8	436
4-10- 0	15	10-15-15	89	20-16-14	39
4-10- 6	11	10-18-10	20	20-20-20	30
5- 4- 0	23	10-20-10	411	21- 6-11	153
5-10- 5	1197	10-20-20	654	21- 7-14	302
5-10- 6	822	10-20-30	12	21-15-15	12
5-10-10	2851	11- 4- 7	110	22- 4- 4	25
5-10-30	11	12- 4- 4	62	22- 5- 5	1395
5-15-30	40	12- 4- 8	498	22- 8- 4	173
5-20-20	92	12- 5- 7	14	23- 7- 7	2437
6- 3- 6	1475	12-12-12	33	23- 7-16	81
6- 6- 4	13	12-24-12	45	23- 8- 7	40
6- 8- 6	705	15- 0-14	10	23-19-17	14
6- 8- 8	225	15- 8-12	1321	24- 4- 6	15
6-10- 4	350	15-10-10	2890	24- 4- 8	106
6-10-10	426	15-15-15	717	24- 4- 9	18
6-12-12	77	15-30-15	21	24- 6- 6	159
6-24-12	67	16- 3- 3	106	24- 9- 5	17
6-24-24	36	16- 4- 4	527	24-12-12	51
7- 7- 7	121	16- 6- 4	40	25- 5-10	39
8- 4- 4	17	16- 8- 4	40	25- 5-15	31
8- 6- 2	81	16- 8- 8	108	25-12-10	252
8- 6- 4	287	17- 4- 4	27	28- 7-14	13
8-10-10	2739	18- 4- 8	507	30-10-10	23
8-12-12	628	18-15-15	109	Other grades	
8-16- 8	23	18-46- 0	1388	(less than 10 tons each)	355

Total

43,602



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